

A. metta

1638

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/180,298A

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:

- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:

- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:

- ☐ Deleted extra, invalid, headings used by an applicant, specifically:

- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically:

- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:

- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

RECEIVED
10/11/95
STIC SYSTEMS BRANCH

Input Set: I180798A.RAW

<p>This Raw Listing contains the General Information Section and up to first 5 pages.</p>

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1  <110> APPLICANT: NOVARTIS AG
2  <120> TITLE OF INVENTION: Improvements in or relating to organic compounds
3  <130> FILE REFERENCE: S-137-1103/SG/A/SGS/PCT
4  <140> CURRENT APPLICATION NUMBER: US/09/180,798A
5  <141> CURRENT FILING DATE: 1998-11-16
6  <160> NUMBER OF SEQ ID NOS: 33
7  <170> SOFTWARE: PatentIn Ver. 2.1
8  <210> SEQ ID NO 1
9  <211> LENGTH: 6695
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Input Set: I180798A.RAW

45 <222> LOCATION: (1)..(6695)

46 <223> OTHER INFORMATION: n = a, t, c, or g

47 <400> SEQUENCE: 1

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Input Set: I180798A.RAW

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Input Set: I180798A.RAW

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166 <222> LOCATION: (94)..(1752)

167 <400> SEQUENCE: 2

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170                                     Met Asn Arg Asn Ser Ile Asn
171                                     1           5
172      ata tta aat tac atg cag ttc act gat gct tac ctt gac aaa tat ggg 162
173      Ile Leu Asn Tyr Met Gln Phe Thr Asp Ala Tyr Leu Asp Lys Tyr Gly
174      10           15           20
175      gtt ctt atg aca ttg gag ctt tac agc aat aac ata agt gga cca att 210
176      Val Leu Met Thr Leu Glu Leu Tyr Ser Asn Asn Ile Ser Gly Pro Ile
177      25           30           35
178      cct agt gat ctt ggg aat ctg aca aat ttg gtg agc ttg gac cta tac 258
179      Pro Ser Asp Leu Gly Asn Leu Thr Asn Leu Val Ser Leu Asp Leu Tyr
180      40           45           50           55
181      atg aat agc ttc tct gga cct ata ccg gac aca tta gga aag ctt aca 306
182      Met Asn Ser Phe Ser Gly Pro Ile Pro Asp Thr Leu Gly Lys Leu Thr
183      60           65           70
184      agg cta aga ttc ttg cgt ctc aac aac aac agc ctc tct ggt cca att 354
185      Arg Leu Arg Phe Leu Arg Leu Asn Asn Asn Ser Leu Ser Gly Pro Ile
186      75           80           85
187      cca atg tca ctg act aat att aca act ctt caa gtc ctg gat tta tca 402
188      Pro Met Ser Leu Thr Asn Ile Thr Thr Leu Gln Val Leu Asp Leu Ser
189      90           95           100
190      aac aat cgg cta tca gga cca gta ccg gat aat ggc tca ttt tct ttg 450
191      Asn Asn Arg Leu Ser Gly Pro Val Pro Asp Asn Gly Ser Phe Ser Leu
192      105           110           115
193      ttt aca cct atc agt ttt gcc aat aat ttg aat tta tgt gga ccc gta 498
194      Phe Thr Pro Ile Ser Phe Ala Asn Asn Leu Asn Leu Cys Gly Pro Val

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Input Set: I180798A.RAW

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198		140	145	150	
199	ttc atc cca cca tca aca gta cag cct cca gga caa aat ggt ccc act	594			
200	Phe Ile Pro Pro Ser Thr Val Gln Pro Pro Gly Gln Asn Gly Pro Thr				
201		155	160	165	
202	gga gct att gct ggg gga gta gct gct ggt gct gct tta ctg ttt gct	642			
203	Gly Ala Ile Ala Gly Gly Val Ala Ala Gly Ala Ala Leu Leu Phe Ala				
204		170	175	180	
205	gca cct gca atg gca ttt gca tgg tgg cgg aga aga aaa ccg cga gaa	690			
206	Ala Pro Ala Met Ala Phe Ala Trp Trp Arg Arg Arg Lys Pro Arg Glu				
207		185	190	195	
208	cat ttc ttt gat gtg cca gct gaa gag gac cca gaa gtg cac ctt ggt	738			
209	His Phe Phe Asp Val Pro Ala Glu Glu Asp Pro Glu Val His Leu Gly				
210	200	205	210	215	
211	caa ctg aag agg ttt tct ctg cga gaa ttg caa gtc gca acg gat act	786			
212	Gln Leu Lys Arg Phe Ser Leu Arg Glu Leu Gln Val Ala Thr Asp Thr				
213		220	225	230	
214	ttt agt acc ata ctt gga aga ggt gga ttt ggt aag gtg tat aag gga	834			
215	Phe Ser Thr Ile Leu Gly Arg Gly Gly Phe Gly Lys Val Tyr Lys Gly				
216		235	240	245	
217	cgc ctt gct gat ggc tca ctt gta gca gtt aaa agg ctt aaa gaa gaa	882			
218	Arg Leu Ala Asp Gly Ser Leu Val Ala Val Lys Arg Leu Lys Glu Glu				
219		250	255	260	
220	cga aca cca ggt ggt gag ctg cag ttt caa aca gag gtg gaa atg att	930			
221	Arg Thr Pro Gly Gly Glu Leu Gln Phe Gln Thr Glu Val Glu Met Ile				
222		265	270	275	
223	agc atg gct gtg cat cga aat ctt ctg cgt cta cgt ggt ttc tgc atg	978			
224	Ser Met Ala Val His Arg Asn Leu Leu Arg Leu Arg Gly Phe Cys Met				
225	280	285	290	295	
226	aca cca aca gag cgg ctt ctt gta tat cca tac atg gct aat gga agt	1026			
227	Thr Pro Thr Glu Arg Leu Leu Val Tyr Pro Tyr Met Ala Asn Gly Ser				
228		300	305	310	
229	gtt gcg tcg tgt tta aga gag cgt cag cca tca gaa cct ccc ctt gat	1074			
230	Val Ala Ser Cys Leu Arg Glu Arg Gln Pro Ser Glu Pro Pro Leu Asp				
231		315	320	325	
232	tgg cca act agg aag agg att gca cta gga tct gct agg ggg ctt tct	1122			
233	Trp Pro Thr Arg Lys Arg Ile Ala Leu Gly Ser Ala Arg Gly Leu Ser				
234		330	335	340	
235	tat ttg cat gac cat tgt gat ccc aag att atc cat cgt gat gta aaa	1170			
236	Tyr Leu His Asp His Cys Asp Pro Lys Ile Ile His Arg Asp Val Lys				
237		345	350	355	
238	gct gca aat ata tta ttg gac gaa gaa ttt gag gct gtt gta ggt gat	1218			
239	Ala Ala Asn Ile Leu Leu Asp Glu Glu Phe Glu Ala Val Val Gly Asp				
240	360	365	370	375	
241	ttt ggg tta gct agg ctc atg gat tac aag gat acc cat gtt aca act	1266			
242	Phe Gly Leu Ala Arg Leu Met Asp Tyr Lys Asp Thr His Val Thr Thr				
243		380	385	390	
244	gct gta agg ggt acc ttg ggc tac ata gct ccc gag tac ctc tcg act	1314			

Input Set: I180798A.RAW

Line	? Error/Warning	Original Text
48	W "N" or "Xaa" used: Feature required	tctagatgac gaaatcgcgc tacctttgat ttngaaat
59	W "N" or "Xaa" used: Feature required	acctgnnggac aaaagaagcg ctgatgaact gatttaat
80	W "N" or "Xaa" used: Feature required	agtcacatna taaaattggn gggttggaca aatataac
276	W Invalid/Missing Amino Acid Numbering	

Input Set: I180798A.RAW

PREVIOUSLY ERRORED SEQUENCES-EDITED

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4  <213> Arabidopsis thaliana
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9              20              25              30
10     Leu His Thr Leu Arg Val Thr Leu Val Asp Pro Asn Asn Val Leu Gln
11          35              40              45
12     Ser Trp Asp Pro Thr Leu Val Asn Pro Cys Thr Trp Phe His Val Thr
13          50              55              60
14     Cys Asn Asn Glu Asn Ser Val Ile Arg Val Asp Leu Gly Asn Ala Glu
15          65              70              75              80
16     Leu Ser Gly His Leu Val Pro Glu Leu Gly Val Leu Lys Asn Leu Gln
17              85              90              95
18     Tyr Leu Glu Leu Tyr Ser Asn Asn Ile Thr Gly Pro Ile Pro Ser Asn
19              100             105             110
20     Leu Gly Asn Leu Thr Asn Leu Val Ser Leu Asp Leu Tyr Leu Asn Ser
21              115             120             125
22     Phe Ser Gly Pro Ile Pro Glu Ser Leu Gly Lys Leu Ser Lys Leu Arg
23              130             135             140
24     Phe Leu Arg Leu Asn Asn Asn Ser Leu Thr Gly Ser Ile Pro Met Ser
25          145             150             155             160
26     Leu Thr Asn Ile Thr Thr Leu Gln Val Leu Asp Leu Ser Asn Asn Arg
27              165             170             175
28     Leu Ser Gly Ser Val Pro Asp Asn Gly Ser Phe Ser Leu Phe Thr Pro
29              180             185             190
30     Ile Ser Phe Ala Asn Asn Leu Asp Leu Cys Gly Pro Val Thr Ser His
31              195             200             205
32     Pro Cys Pro Gly Ser Pro Pro Phe Ser Pro Pro Pro Phe Ile Gln
33              210             215             220
34     Pro Pro Pro Val Ser Thr Pro Ser Gly Tyr Gly Ile Thr Gly Ala Ile
35          225             230             235             240
36     Ala Gly Gly Val Ala Ala Gly Ala Ala Leu Pro Phe Ala Ala Pro Ala
37              245             250             255
38     Ile Ala Phe Ala Trp Trp Arg Arg Arg Ser Pro Leu Asp Ile Phe Phe
39              260             265             270
40     Asp Val Pro Ala Glu Glu Asp Pro Glu Val His Leu Gly Gln Leu Lys
41              275             280             285
42     Arg Phe Ser Leu Arg Glu Leu Gln Val Ala Ser Asp Gly Phe Ser Asn
43              290             295             300
44     Lys Asn Ile Leu Gly Arg Gly Gly Phe Gly Lys Val Tyr Lys Gly Arg
45          305             310             315             320
46     Leu Ala Asp Gly Thr Leu Val Ala Val Lys Arg Leu Lys Glu Glu Arg
47              325             330             335

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48	Thr	Pro	Gly	Asp	Glu	Leu	Gln	Phe	Gln	Thr	Glu	Glu	Met	Ile	Ser
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50	Met	Ala	Val	His	Arg	Asn	Leu	Leu	Arg	Leu	Arg	Gly	Phe	Cys	Met

[illegible]

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/180,798A

 DATE: 04/07/2000
 TIME: 15:42:01

Input Set: I180798A.RAW

This Raw Listing contains the General
Information Section and those Sequences
containing ERRORS.

Does Not Comply
Corrected Diskette Needed

1 <110> NOVARTIS AG
 2 <120> Improvements in or relating to organic compounds
 3 <130> S-137-1103/SG/A/SGS/PCT
 4 <140> US/09/180,798A
 5 <141> 1998-11-16
 6 <160> 33
 7 <170> PatentIn Ver. 2.1

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 10 <212> PRT
 11 <213> Arabidopsis thaliana
 12 <400> 33
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 15 Pro Asn His Ser Leu Trp Leu Ala Ser Ala Asn Leu Glu Gly Asp Ala
 16 20 25 30
 17 Leu His Thr Leu Arg Val Thr Leu Val Asp Pro Asn Asn Val Leu Gln
 18 35 40 45
 19 Ser Trp Asp Pro Thr Leu Val Asn Pro Cys Thr Trp Phe His Val Thr
 20 50 55 60
 21 Cys Asn Asn Glu Asn Ser Val Ile Arg Val Asp Leu Gly Asn Ala Glu
 22 65 70 75 80
 23 Leu Ser Gly His Leu Val Pro Glu Leu Gly Val Leu Lys Asn Leu Gln
 24 85 90 95
 25 Tyr Leu Glu Leu Tyr Ser Asn Asn Ile Thr Gly Pro Ile Pro Ser Asn
 26 100 105 110
 27 Leu Gly Asn Leu Thr Asn Leu Val Ser Leu Asp Leu Tyr Leu Asn Ser
 28 115 120 125
 29 Phe Ser Gly Pro Ile Pro Glu Ser Leu Gly Lys Leu Ser Lys Leu Arg
 30 130 135 140
 31 Phe Leu Arg Leu Asn Asn Asn Ser Leu Thr Gly Ser Ile Pro Met Ser
 32 145 150 155 160
 33 Leu Thr Asn Ile Thr Thr Leu Gln Val Leu Asp Leu Ser Asn Asn Arg
 34 165 170 175
 35 Leu Ser Gly Ser Val Pro Asp Asn Gly Ser Phe Ser Leu Phe Thr Pro
 36 180 185 190
 37 Ile Ser Phe Ala Asn Asn Leu Asp Leu Cys Gly Pro Val Thr Ser His
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 39 Pro Cys Pro Gly Ser Pro Pro Phe Ser Pro Pro Pro Phe Ile Gln

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/180,798A

 DATE: 04/07/2000
 TIME: 15:42:01

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46				260					265				270				
47	Asp	Val	Pro	Ala	Glu	Glu	Asp	Pro	Glu	Val	His	Leu	Gly	Gln	Leu	Lys	
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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/180,798ADATE: 04/07/2000
TIME: 15:42:01

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